



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,635	12/13/2005	Esther Anna Wilhelmina Gerarda Janssen	NL 030672	6809
24737	7590	08/24/2007	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS				GREEN, TRACIE Y
P.O. BOX 3001				
BRIARCLIFF MANOR, NY 10510				
ART UNIT		PAPER NUMBER		
		2809		
MAIL DATE			DELIVERY MODE	
08/24/2007			PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/560,635	JANSSEN ET AL.
Examiner	Art Unit	
Tracie Y. Green	2809	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 01/23/2007.

2a)  This action is FINAL.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## **Disposition of Claims**

4)  Claim(s) 1-8 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1,2 and 4-7 is/are rejected.

7)  Claim(s) 3 and 8 is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 13 December 2005 is/are: a)  accepted or b)  objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 01/23/2007.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .

5)  Notice of Informal Patent Application

6)  Other: \_\_\_\_ .

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,2,4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Duggal (U.S. Patent 6,465,953)

Duggal discloses an organic light emitting display element comprising:

**Regarding claim 1,**

A) A flexible back plate substrate (Column 4 lines 10-15, 25-35 and Column lines 55-60 and Figure 2, #105B)

B) A flexible cover substrate (Column 8 lines 50-55 and Figure 2, #105A)

C) A seal (Column 3 lines 30-35 and Figure 2, #130, #107A and #107B)

*(Please note, Examiner has taken getter material to be the inner seal and the inorganic layer to be the outer seal)*

D) An active display element, which is deposited on said flexible back plate substrate (Column 4 lines 45-50 and Figure 2, line #120)

E) Wherein said back plate and cover substrates are joined together by said seal so as to encapsulate said active display element (Figure 2, #120, 107A-B and 105 A-b)

F) The inner seal portion being impermeable as compared to the outer seal portion and being deposited between the outer seal portion and the display element (Column 3 lines 20-31)

**Regarding claim 2**, wherein the inner seal portion has a lower permeability than the outer seal portion (Column 9 lines 24-30)

**Regarding claim 4**, wherein the inner seal portion is formed of a material having a young's modulus higher than 1 Gpa (Column 7 lines 64-68 and column 8 lines 19-25)

**Regarding claim 5**, wherein the inner seal portion is formed of a material having a young's modulus higher than 2 Gpa (Column 7 lines 64-68 and column 8 lines 19-25)

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duggal in view of Hoshiwaka et al. (U.S. Patent 4,640,583)

Duggal's invention discloses all of the claimed limitations from above except for wherein the outer seal portion is formed of a material having a young's modulus lower than 50 Mpa; and/or wherein the outer seal portion is formed of a material having a young's modulus lower than 10 Mpa.

However Hoshiwaka et al. teaches

**Regarding claim 6, wherein the outer seal portion is formed of a material having a young's modulus lower than 50 Mpa (Column 7, lines 25-30 and Column 12 lines 50-55)**

**Regarding claim 7, wherein the outer seal portion is formed of a material having a young's modulus lower than 10 Mpa (Column 7, lines 25-30 and Column 12 lines 50-55)**

4. Given the teachings of Duggal it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the organic light emitting display element of Duggal wherein the outer seal portion is formed of a material having a young's modulus lower than 50 Mpa; and/or wherein the outer seal portion is formed of a material having a young's modulus lower than 10 Mpa.

Doing so would provide an organic light-emitting device that has is more flexible, stronger and water tight around the display medium.

***Allowable Subject Matter***

5. Claims 3 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Prior art fails to disclose wherein the seal has a permeability below  $5 * 10^{-5}$  g water per square meter per day; and wherein a ratio of young's modulus of inner seal and outer seal material, respectively, is between 1/100 to 1/000.

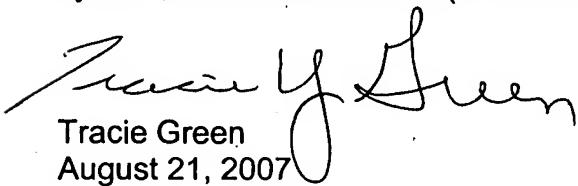
***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure can be found in form 892 of this office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tracie Y. Green whose telephone number is 571/270-3104. The examiner can normally be reached on Monday-Thursday- 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrell McKinnon can be reached on 571/272-4797. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Tracie Green  
August 21, 2007



LISA CAPUTO  
PRIMARY PATENT EXAMINER